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(21) Application number: **08059233**(71) Applicant: **KYOCERA CORP**(22) Date of filing: **15 . 03 . 96**(72) Inventor: **KIMURA JUNICHI**(54) **AUDIO CONFERENCE DEVICE**

constant listening level can be maintained automatically.

(57) Abstract:

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PROBLEM TO BE SOLVED: To always obtain a constant listening level even if the position of a voice input device is changed by installing an ultrasonic wave oscillating part in the vicinity of a voice output device, and installing an ultrasonic wave receiving part in the vicinity of the voice input device, and comparing a received signal with a reference signal.

SOLUTION: An ultrasonic pulse generated by a carrier oscillator 7, a reference pulse oscillator 8 and a modulator 6 is emitted toward the inside of a conference room from the oscillating part installed in the vicinity of the voice output device (speaker) through a power amplifier 5. The ultrasonic wave receiving part 1 installed in the vicinity of the voice input device (microphone) receives the propagated and delayed ultrasonic pulse, and compares the pulse obtained through a microphone amplifier 2 and a demodulator 3 with a reference pulse in a comparator 9. Distance between the microphone and the speaker is calculated from that pulse time difference, and an audio conference control part 10 controls speaker sound volume in accordance with this distance. Thus, even if a speaking person moves, and a listening position is changed, the

